

Safety Data Sheet

30-5100

For Compliance with OSHA 29 CFR 1910.1200 and ANSI Z400.1-1998

Section 1: Identification

Product Name GLUTATHIONE (L) REDUCED EP (PHARMA GRADE)

Commercial Name N/A

Product Use Pharmaceutical nutriceutical, food and beverage

Restrictions On Use N/A

Product Code 30-5100

Company PCCA In case of emergency contact:

9901 South Wilcrest Houston, TX 77099 Phone: 1-800-331-2498 Fax: 1-800-874-5760 CHEMTREC (24hr) 1-800-424-9300

Section 2: Hazard(s) Identification

OSHA Haz Com: Not hazardous according to REGULATION (EC) No 1272/2008 Classification according to EU Directives

CFR 1910.1200 67/548/EEC or 1999/45/EC **Signal Word** NON-HAZARDOUS

Hazard Statement(s) N/A Pictogram(s) or Symbol(s)

Precautionary Statement(s):

 Prevention
 N/A

 Response
 N/A

 Storage
 N/A

 Disposal
 N/A

Section 3: Composition/Information on Ingredients

Substance/Mixture Substance

Components L-Glutathione reduced

% By Weight >=98% CAS# 70-18-8 Molecular Weight 307.32

Chemical Formula C10H17N3O6S

Synonym(s) N/A

Mixtures

 Name
 CAS#
 % by Weight
 TLV/PEL
 LC50/LD50

 L-Glutathione reduced
 70-18-8
 >=98%
 N/A
 N/A

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Section 4: First-Aid Measures

Inhalation Remove from exposure and move to fresh air immediately. If not breathing, give artificial respiration. If

breathing is difficult, give oxygen. Get medical aid.

Skin Contact Get medical aid. Flush skin with plenty of water for at least 15 minutes while removing contaminated clothing

and shoes

Eye Contact Flush eyes with plenty of water for at least 15 minutes, occasionally lifting the upper and lower eyelids. Get

medical aid.

Ingestion Get medical aid. Wash mouth out with water.

Symptoms/Effects

Acute N/A Delayed N/A Immediate Medical Attention

N/A

Section 5: Fire-Fighting Measures

Suitable Extinguishing Media

Use water spray, dry chemical, carbon dioxide, or chemical foam.

Unsuitable Extinguishing Media

N/A

Products of Combustion

N/A

Firefighters Special Equipment and Precautions

As in any fire, wear a self-contained breathing apparatus in pressure-demand, MSHA/NIOSH (approved or equivalent), and full protective gear.

Section 6: Accidental Release Measures

Use proper personal protective equipment as indicated in Section 8. Spills/Leaks: Vacuum or sweep up material and place into a suitable disposal container.

Section 7: Handling and Storage

Handling: Avoid breathing dust, vapor, mist, or gas. Avoid contact with skin and eyes. Storage: Store in a tightly closed container in cool, dry area, recommend storage temperature 25°C±2°C.

Section 8: Exposure Controls/Personal Protection

Exposure Limits
Engineering Controls

N/A

Use adequate ventilation to keep airborne concentrations low.

Personal Protection Eyes: Wear chemical goggles Skin: Wear appropriate protective gloves to prevent skin exposure.

Clothing: Wear appropriate protective clothing to prevent skin exposure. Respirators: Follow the OSHA respirator regulations found in 29CFR 1910.134 or European Standard EN 149. Always use a NIOSH or

European Standard EN 149 approved respirator When necessary.

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Section 9: Physical and Chemical Properties

Appearance White Crystalline Powder

Odor Odorless
Odor Threshold N/A

Melting Point 183°C~187 °C **pH** ~3 (1% aq. sol.)

Freezing Point N/A **Vapor Pressure** N/A N/A **Vapor Density** N/A **Boiling Point/Range** N/A N/A **Decomposition temperature Viscosity Partition Coefficient:** N/A **Evaporation Rate** N/A

n-octanol/water

Flash Point N/A Autoignition temperature N/A

Flammability N/A Flammability or Explosive Limits:

Lower N/A

Upper N/A

Solubility(ies) Freely soluble in water

Other N/A

Section 10: Stability and Reactivity

Reactivity The substance is stable under normal storage and handling conditions.

Chemical Stability Stable at room temperature in closed containers under normal storage and handling

conditions.

Hazardous Polymerization No dangerous reactions known.

Conditions to Avoid Incompatible materials Avoid extreme heat. Avoid direct sunlight.

Incompatible Materials Strong-oxidizing agents

Hazardous Decomposition Products Carbon oxides, nitrogen oxides (NOx), Sulphur oxides.

Section 11: Toxicological Information

RTECS RTECS#:MC0556000

Acute Toxicity

LD50/LC50: CAS# 70-18-8: Oral, mouse: LD50 = 5000 mg/kg.

Skin Corrosion/Irritation

N/A

Serious Eye Damage/Irritation

N/A

Respiratory or Skin Sensitization

N/A

Germ Cell Mutagenicity

N/A

Carcinogenicity

Not listed by ACGIH, IARC, NIOSH, NTP, or OSHA.

Reproductive Toxicity

N/A

Routes of Entry

N/A

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Symptoms Related to Exposure

Potential Health Effects

N/A

Target Organ(s) N/A

Section 12: Ecological Information

Ecotoxicity

N/A

Persistance and Degradability

Bioaccumulative Potential

N/A

Mobility in Soil

N/A

Other Adverse Effects

N/A

Section 13: Disposal Considerations

Waste Disposal

Dispose of in a manner consistent with federal, state, and local regulations.

Disposal of Container

N/A

Other Considerations

N/A

Section 14: Transport Information

DOT Classification

IATA: Glutathione is not regulated as dangerous goods. IMO: Glutathione is not regulated as dangerous goods. RID/ADR: Glutathione is not regulated as dangerous goods.

Section 15: Regulatory Information

Regulations

European/International Regulations: European Labeling in Accordance with EC Directives Hazard Symbols: Not available Risk Phrases: Safety Phrases: S 24/25 Avoid contact with skin and eyes. WGK (Water Danger/Protection) CAS# 70-18-8: 1 United Kingdom Occupational Exposure Limits United Kingdom Maximum Exposure Limits Canada CAS# 70-18-8 is listed on Canada's DSL List. CAS# 70-18-8 is not listed on Canada's Ingredient Disclosure List. Exposure Limits US FEDERAL TSCA CAS# 70-18-8 is listed on the TSCA inventory

Other

N/A

Section 16: Other Information

N/A

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